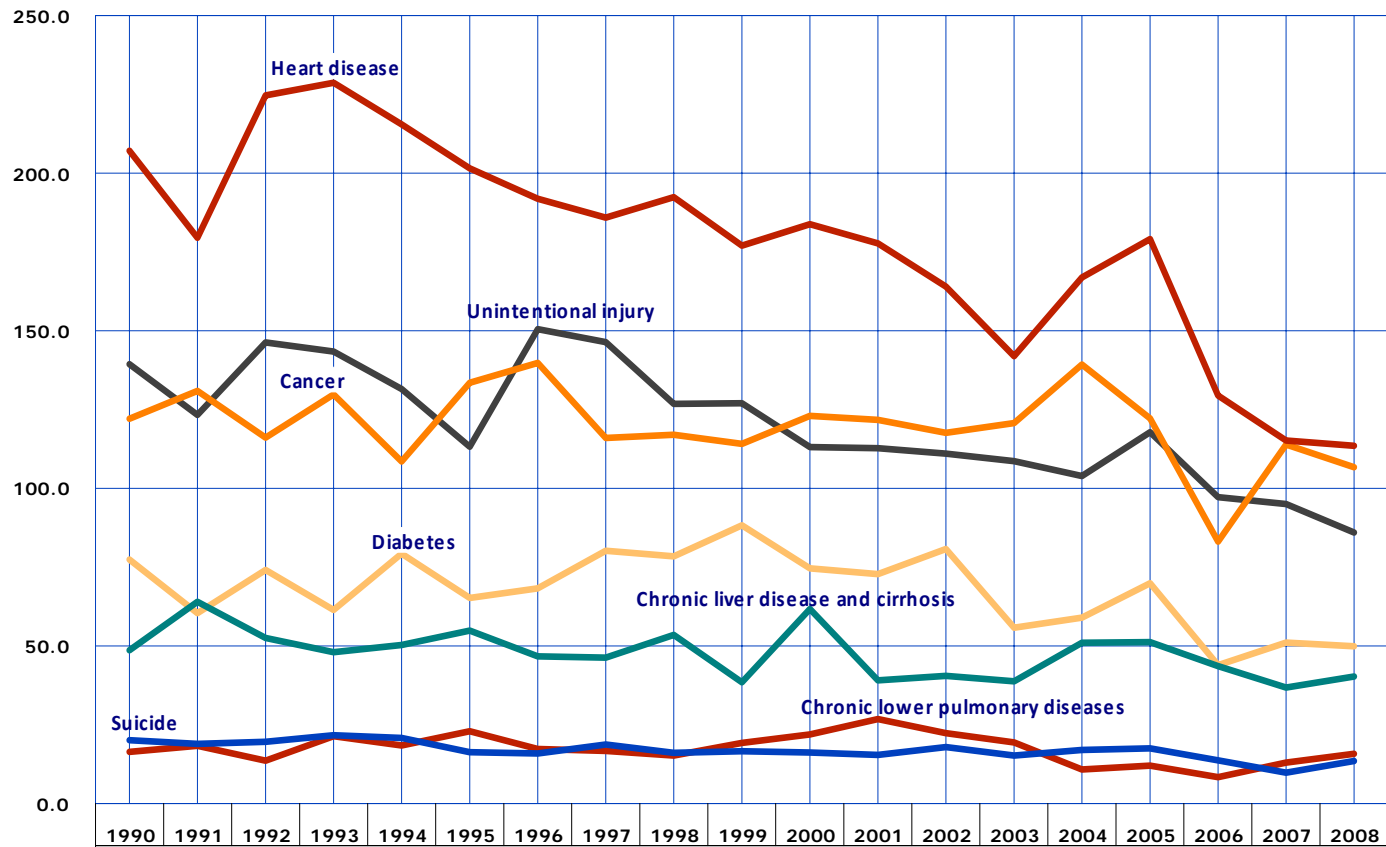




## **COMPARATIVE CAUSE-SPECIFIC MORTALITY**



**5.13**  
**Temporal Changes\* in the Selected Leading Causes of Death among American Indian Residents of Arizona, 1990-2008**



\* Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard. See Table 2B-3 in the "Arizona Health Status and Vital Statistics 2008" report.

5.14

Five Leading Causes of Death\* by Gender among American Indian Residents of Arizona in 2008

Rank	Female	Both	Male
1	Diseases of heart 103.1	Diseases of heart 113.5	Unintentional injury 132.6
2	Cancer 93.2	Cancer 106.7	Diseases of heart 127.5
3	Diabetes 52.1	Unintentional injury 86.0	Cancer 126.4
4	Unintentional injury 44.4	Diabetes 49.9	Chronic liver disease and cirrhosis 52.1
5	Influenza and pneumonia 33.3	Chronic liver disease and cirrhosis 40.3	Diabetes 46.4

\* Based on age-adjusted mortality rates: Number of deaths per 100,000 population age-adjusted to the 2000 U.S. standard. See Table 2B-4 in the "Arizona Health Status and Vital Statistics 2008" report.

**5.15**  
**Five Leading Causes of Death among American Indians by Gender and Residence**  
**On or Off Reservation, Arizona, 2008**

<b>Rank</b>	<b>Female, resided on reservation</b>	<b>Female, resided off reservation</b>	<b>Male, resided on reservation</b>	<b>Male, resided off reservation</b>
<b>1</b>	<b>Cancer</b> 14.3%	<b>Diseases of heart</b> 17.5%	<b>Unintentional injury</b> 20.0%	<b>Unintentional injury</b> 13.9%
<b>2</b>	<b>Diseases of heart</b> 13.7%	<b>Cancer</b> 15.1%	<b>Diseases of heart</b> 12.2%	<b>Cancer</b> 13.7%
<b>3</b>	<b>Unintentional injury</b> 10.8%	<b>Chronic liver disease and cirrhosis</b> 9.9%	<b>Cancer</b> 10.1%	<b>Diseases of heart</b> 10.4%
<b>4</b>	<b>Diabetes</b> 8.8%	<b>Diabetes</b> 5.2%	<b>Chronic liver disease and cirrhosis</b> 6.2%	<b>Chronic liver disease and cirrhosis</b> 6.8%
<b>5</b>	<b>Influenza &amp; pneumonia</b> 6.1%	<b>Unintentional injury</b> 5.2%	<b>Suicide</b> 4.3%	<b>Assault</b> 4.9%

\* Percent of total deaths in specified group.

**5.16**  
**Proportional Mortality\* by Type of Cancer and Gender among American Indians and all Residents of Arizona, 1998-2008**

Rank	Arizona male**	American Indian male	Arizona female**	American Indian female
1	Trachea, bronchus, lung 29.1%	Prostate 11.4%	Trachea, bronchus, lung 25.8%	Breast 13.1%
2	Prostate 10.8%	Lymphoma 10.0%	Breast 15.7%	Lymphoma 10.0
3	Colon, rectum, anus 9.6	Trachea, bronchus, lung 9.7%	Colon, rectum, anus 9.6%	Trachea, bronchus, lung 8.0%
4	Lymphoma 8.9%	Liver 8.2%	Lymphoma 7.9%	Ovary 6.5%
5	Pancreas 4.7%	Colon, rectum, anus 8.1%	Ovary 4.9%	Colon, rectum, anus 5.8%
6	Esophagus 3.1%	Kidney 7.2%	Pancreas 4.8%	Liver 5.0%
7	Liver 3.0%	Stomach 7.2%	Brain 2.0%	Stomach 5.0%
8	Bladder 2.8%	Pancreas 5.6%	Liver 1.8%	Pancreas 4.6%
9	Kidney 2.4%	Esophagus 3.1%	Uterus 1.7%	Cervix uteri 4.2%
10	Brain 2.1%	Lip/oral cavity 1.6%	Kidney 1.6%	Kidney 3.9%

\*Percent of cancer deaths in specified group in 1998-2008.

\*\*All race/ethnic groups combined.

\*\*\*Malignant neoplasm of lymphoid, hematopoietic and related tissue.

Note: percentages based on frequency counts in table 5-17.

**5.17**  
**Proportional Mortality\* by Mechanism of Unintentional Injury and Gender among**  
**American Indians and all Residents of Arizona, 1998-2008**

Rank	Arizona male**	American Indian male	Arizona female**	American Indian female
1	Motor vehicle-related 41.5%	Motor vehicle-related 58.2%	Motor vehicle-related 35.7%	Motor vehicle-related 66.8%
2	Poisoning by drugs 19.5%	Poisoning by drugs 7.3%	Fall 30.9	Fall 9.1%
3	Fall 15.5	Fall 6.1%	Poisoning by drugs 14.8%	Poisoning by drugs 7.3%
4	Drowning 3.7%	Exposure to cold 5.0%	Drowning 2.4%	Exposure to cold 2.1%
5	Exposure to heat 1.7%	Drowning 3.1%	Choked on objects other than food 2.4%	Drowning 2.0%
6	Fire, flames, smoke 1.5%	Poisoning by gases 2.9%	Misadventures during medical care 2.4%	Poisoning by gases 1.8%
7	Choked on object other than food 1.5%	Fire, flames, smoke 1.9%	Fire, flames, smoke 1.9%	Fire, flames, smoke 1.7%
8	Mechanical suffocation 1.3%	Mechanical suffocation 1.8%	Choked on food 1.4%	Misadventures during medical care 1.4%
9	Poisoning by gases 1.3%	Railway accident 1.5%	Exposure to heat 1.1%	Mechanical suffocation 1.3%
10	Firearm discharge 1.1%	Choked on objects other than food 1.3%	Mechanical suffocation 0.8%	Choked on objects other than food 1.3%

\*Percent of unintentional injury deaths in specified group in 1998-2008.

\*\*All race/ethnic groups combined.

Note: Percentages based on frequency counts in table 5-18.

## 5.18

**COMPARISON OF MORTALITY BY SPECIFIC TYPE OF CANCER BY GENDER AMONG AMERICAN INDIANS AND  
ALL RESIDENTS\* OF ARIZONA, 2000-2008**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>Malignant neoplasms, total</b>	102,704	54,948	47,756	1,942	928	1,014
Malignant neoplasm of lip, oral cavity and pharynx	1,126	775	351	20	15	5
Malignant neoplasm of esophagus	2,109	1,688	421	32	29	3
Malignant neoplasm of stomach	1,702	1,026	676	118	67	51
Malignant neoplasm of colon, rectum and anus	9,883	5,284	4,599	134	75	59
Malignant neoplasm of liver and intrahepatic bile ducts	2,536	1,665	871	127	76	51
Malignant neoplasm of pancreas	4,912	2,600	2,312	99	52	47
Malignant neoplasm of larynx	484	384	100	3	2	1
Malignant neoplasm of trachea, bronchus and lung	28,294	15,974	12,320	171	90	81
Malignant melanoma of skin	1,638	1,129	509	11	8	3
Malignant neoplasm of breast	7,574	67	7,507	135	2	133
Malignant neoplasm of cervix uteri	682	0	682	43	0	43
Malignant neoplasm of corpus uteri and uterus, part unspecified	824	0	824	22	0	22
Malignant neoplasm of ovary	2,354	0	2,354	66	0	66
Malignant neoplasm of prostate	5,932	5,932	0	106	106	0
Malignant neoplasm of kidney and renal pelvis	2,035	1,293	742	107	67	40
Malignant neoplasm of bladder	2,123	1,541	582	18	9	9
Malignant neoplasm of meninges, brain and other parts of central nervous system	2,121	1,177	944	29	14	15
Malignant neoplasm of lymphoid, hematopoietic and related tissue	8,660	4,887	3,773	194	93	101
Hodgkin's disease	182	113	69	2	2	0
Non-Hodgkin's lymphoma	3,465	1,883	1,582	66	30	36
Leukemia	3,316	1,925	1,391	68	32	36
Multiple myeloma and immunoproliferative neoplasms	1,691	962	729	58	29	29
Other and unspecified malignant neoplasms of lymphoid tissue	6	4	2	0	0	0
<b>All other and unspecified malignant neoplasms</b>	9,641	5,199	4,442	281	110	171

\* All race/ethnic groups combined.



## 5.19

**UNINTENTIONAL INJURY DEATHS BY MECHANISM AND GENDER AMONG AMERICAN INDIANS AND  
ALL RESIDENTS\* OF ARIZONA, 1998-2008**

	ALL RESIDENTS OF ARIZONA			AMERICAN INDIANS OR ALASKA NATIVES		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
<b>Unintentional injury, total</b>	28,138	18,361	9,777	2,884	2,038	846
<b>Railway accidents</b>	114	101	13	36	30	6
<b>Motor vehicle -related</b>	11,119	7,628	3,491	1,752	1,187	565
<b>Water transport accident</b>	47	35	12	0	0	0
<b>Accident involving aircraft</b>	215	190	25	1	1	0
<b>Poisoning by drugs/medicaments</b>	5,029	3,580	1,449	206	149	57
<b>Poisoning by gases and vapors</b>	312	236	76	74	59	15
<b>Falls</b>	5,865	2,841	3,024	202	125	77
<b>Fire, flames, smoke</b>	465	283	182	52	38	14
<b>Excessive natural heat</b>	427	319	108	31	25	6
<b>Excessive natural cold</b>	204	170	34	120	102	18
<b>Contact with venomous snakes and lizards</b>	4	4	0	0	0	0
<b>Contact with venomous spiders</b>	4	1	3	0	0	0
<b>Contact with scorpions</b>	3	1	2	0	0	0
<b>Contact with hornets, wasps, bees</b>	0	0	0	0	0	0
<b>Bitten or struck by dog</b>	11	5	6	1	0	1
<b>Lightning</b>	18	14	4	4	3	1
<b>Storms and floods</b>	11	10	1	4	4	0
<b>Accidental drowning and submersion</b>	917	684	233	81	64	17
<b>Choked on food</b>	332	200	132	28	20	8
<b>Choked on other objects</b>	505	272	233	38	27	11
<b>Mechanical suffocation</b>	312	237	75	47	36	11
<b>Accidental discharge of firearms</b>	246	206	40	22	20	2
<b>Exposure to electric current</b>	78	76	2	5	4	1
<b>Overexertion</b>	1	1	0	1	1	0
<b>Adverse effects of drugs in therapetic use</b>	52	23	29	0	0	0
<b>Misadventures to patients during medical/surgical care</b>	430	198	232	22	10	12

\* All race/ethnic groups combined.